

CLAIMS

1. - System for supplying an internal combustion engine with a liquid fuel, comprising a tank, a pipe for the circulation of hot fuel between the engine and the tank and at least one sealed composite junction conduit for joining the pipe to the tank, characterized in that the composite junction conduit comprises at least two hollow components (1,2) each based on a different plastic, the said components being mechanically attached to each other and in communication with each other and include, between them, an overmoulded seal (6).
2. - System according to Claim 1, characterized in that the two hollow components (1, 2) are mechanically attached by means of a catching element (7) that forms part of one of the components and is embedded in the constituent plastic of the other component.
3. - System according to Claim 1 or 2, characterized in that one of the two components (1, 2) includes a nozzle (2) that is engaged in a socket (1) of the other component and in that the socket (1) is hermetically coupled to a tank and the nozzle (2) is hermetically coupled to a hose.
4. - System according to Claim 3, characterized in that the plastic of the socket (1) is selected from olefin (co)polymers, the plastic of the nozzle (2) is selected from lactam-derived (co)polymers, polyamide resins and polyacetals and the seal (6) is made of a elastomer selected from nitrils and fluoroelastomers.
5. - System according to Claim 4, characterized in that the plastic of the nozzle (2) is polyoxymethylen (POM).
6. - System according to any one of Claims 1 to 5, characterized in that a metal disc (8) is inserted between the two components (1, 2).
7. - Method of manufacturing a tank comprised in a system according to any one of Claims 1 to 6, characterized in that a sealed composite junction conduit for joining the pipe to the tank, is manufactured by joining a first hollow component made of a plastic to a second hollow component made of a different plastic, in such a way that the first component (2) is firstly formed by moulding, this first component and a plastic seal (6) are then deposited in a mould, and then the second component (1) is formed by moulding, in the said mould, over the first component and the seal.

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8. - Method according to Claim 7, characterized in that the first hollow component (2) is provided with a catching element (7) that is then embedded in the plastic of the second component (1) during moulding of the latter.

5 9. - Method according to Claim 8, characterized in that, for moulding the first component (2), a plastic having a higher thermal resistance than that of the plastic of the second component (1) is selected.

10. - Method according to any one of Claims 7 to 9, characterized in that, before the second component (1) is formed, a metal disc (8) is placed in the mould containing the first component (2).